

# WHO'S BUILDING IN HPI

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## Soviet contract won by French consortium

The consortium of Lurgi S.A., Paris, and Litwin S.A. have been awarded a contract by V/O Machinoimport, Moscow, on behalf of the Oil Ministry of the USSR to supply gas and oil treatment facilities for another two stages in the development of the Tengiz oil field at the northeast corner of the Caspian Sea. The contract is worth around 500 million DM.

The job covers the engineering, supply of technical documentation and equipment, as well as supervision of erection work for two process units to produce some three million tpy of stabilized crude each.

The accompanying gases will be desulfurized to recover 450,000 tpy of pure sulfur per unit. The gases will be separated into 175,000 tpy of ethane, 100,000 tpy of propane, 200,000 tpy of liquefied gas and 630,000 tpy of natural gas.

About 25% of the supplies and services for the two new stages of the Tengiz complex will come from the Federal Republic of Germany. Supplies from the USSR have been increased significantly in comparison with the first stage.

The first plant, for which the contract was awarded in second quarter 1985 to a consortium which is also piloted by Lurgi, is currently under construction. It is scheduled for completion by the end of 1989.

Completion of the second and third stages of the complex is slated for as early as 1990.

## LLDPE contract won

Foster Wheeler Energy Ltd. has been awarded a lump-sum contract for the engineering, procurement and construction supervision of BP Chemicals International's LLDPE (linear low density polyethylene) plant at Grangemouth, Scotland. Reading, England-based Foster Wheeler Energy Ltd. is a wholly-owned subsidiary of Foster Wheeler Corp.

The 125,000 metric-tpy plant at Grangemouth is a part of a £60 million-plus investment (some \$112 million) by BP Chemicals to increase its manufacturing capacity of LLDPE and HDPE (high density polyethylene) and will replace the existing 90,000-tpy LDPE plant. It will produce alpha-olefin LLDPE copolymers using the BP fluid

bed polyethylene process and will be in operation by the end of 1989.

Work already has started on the project and design activities will be shared between Foster Wheeler's Reading and Glasgow offices.

## Chlorine plant contract awarded by FPC

Uhde GmbH of Dortmund, Fed. Rep. of Germany, has concluded a contract with the Formosa Plastics Corp. (FPC) for the conversion of a mercury-cell alkaline chloride electrolysis plant to the low-pollution, energy-saving membrane cell technology. The plant, originally supplied by Uhde in 1973 and located in the Kaohsiung region of southern Taiwan, has at present an output of 525 tpd, which is to be raised to 640 tpd. Uhde's services under the contract comprise the complete basic, detail and civil engineering. The work will be carried out in cooperation with Uhde's Indian subsidiary based in Bombay, though the complete membrane cells will be supplied directly from Germany. Civil works and erection are to be carried out by the client, with these operations as well as the commissioning stage supervised by Uhde engineers. The revamped plant is scheduled to go on-stream in mid-1989.

The contract is worth approximately DM 25 million, including both engineering and supply.

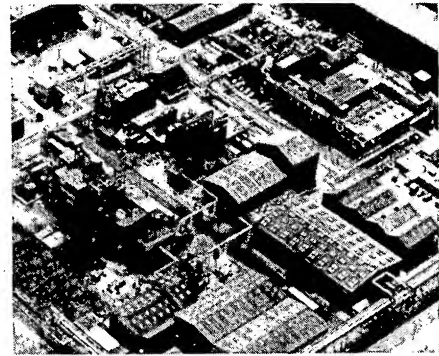
## Lump-sum order received

Kinetics Technology International (KTI) BV of Zoetermeer, the Netherlands, has received from Rheinische Olefinwerke (ROW) GmbH of Wesseling, Federal Republic of Germany—an affiliate of BASF (50%) and Shell (50%)—a lump-sum turnkey order for an ethylene plant front end producing 230,000 metric-tpy of ethylene.

For this project, Shell Internationale Chemie Maatschappij (SICM) N.V. of The Hague, the Netherlands, will act as consultant to ROW.

The value of this order is around 160 million German Marks and the scheduled completion will be in fourth quarter 1989. This project will replace the old front end part of the ethylene unit MG4.

The design feedstock of the plant will be a hydrogenated heavy distillate from the Shell Godorf refinery; however,



**Expansion planned**—Huntsman Chemical Co., Ltd., Carrington, England, will increase incrementally its annual polystyrene capacity from 50 million to 250 million pounds over the next two years. The additional capacity will be brought on by two grass-roots production lines, one crystal and one impact. This expansion will introduce the latest in polymer process control systems. All major equipment for the first line is on order, with construction to begin in mid-1988. All major equipment for the second line will be ordered in the third quarter of 1988.

other feedstocks ranging from LPG to heavy feedstocks with high end points can be processed as well.

## Korea to get second PP plant

ISU Chemical Ltd. has selected the Union Carbide Corp./Shell Oil Co. (USA) Unipol PP process for its planned new polypropylene plant at Onsan, Korea. The 200,000 metric-tpy plant is scheduled for completion in the second quarter of 1990.

The new plant, having the world's largest single train polypropylene reactor system, will mark ISU's first major participation in the petrochemicals business.

## Styrene plant design contract awarded

Lucky Polychemical Co., Ltd., of Seoul, Korea, has awarded Lummus Crest, a subsidiary of Combustion Engineering, Inc., a contract for the design of an 80,000 metric-tpy styrene plant in Korea.

Basic engineering for the project will be performed by the Lummus Technology Division in Bloomfield, N.J., utilizing the Monsanto/Lummus Crest state-of-the-art styrene process.

Lummus Heat Transfer System will perform the thermal design and me-